WRDC-TR-90-8007 Volume V Part 42

AD-A250 474



INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)
Volume V - Common Data Model Subsystem
Part 42 - CDM Impact Analysis Build Instructions User's Manual

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September 1990

Final Report for Period 1 April 1987 - 31 December 1990

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REPO	ORT DOCUMEN	ITATION PAG	GE			
1a. REPORT SECURITY CLASSIFICATION Unclassified	1b. RESTRICTIVE MARKINGS					
2a. SECURITY CLASSIFICATION AUTHORIT	3. DISTRIBUTION/AVAILABILITY OF REPORT					
2h DECLASSIFICATION/DOWNEDADING SO	CHEDILLE	Approved for Public Release; Distribution is Unlimited.				
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE		Diamoution is Offiniated.				
4. PERFORMING ORGANIZATION REPORT UM 620341421	5. MONITORING ORGANIZATION REPORT NUMBER(S) WRDC-TR- 90-8007 Vol. V, Part 42					
6a. NAME OF PERFORMING ORGANIZATION Control Data Corporation; Integration Technology Services	b. OFFICE SYMBOL (if applicable)	7a. NAME OF MONITORING ORGANIZATION WRDC/MTI				
6c. ADDRESS (City, State, and ZIP Code)		7b. ADDRESS (City, State, and ZIP Code))	
2970 Presidential Drive	WPAFB, OH 45433-6533					
Fairborn, OH 45324-6209 8a. NAME OF FUNDING/SPONSORING	Bb. OFFICE SYMBOL			MENT IDEN	ITIFICATION NUM	
ORGANIZATION	(if applicable)	F33600-87-C-0464				
Wright Research and Development Center, Air Force Systems Command, USAF	WRDC/MTI					
8c. ADDRESS (City, State, and ZIP Code)		10. SOURCE O	F FUNDING N	OS.		
Wright-Patterson AFB, Ohio 45433-6533		PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT NO.	
See block 19	i	78011F	595600	F95600	20950607	
Control Data Corporation: Apicella, M. L., S	ingh, S.					
13a. TYPE OF REPORT 13b TIME COVE Final Report 4/1/87-12/3	REPORT (Yr., Mo., Day) 15. PAGE COUNT 17					
16. SUPPLEMENTARY NO						
WRDC/MTI Project Priority 6203						
17. COSATI CODES 18. S	SUBJECT TERMS (C	ontinue on reverse	e if necessary a	nd identify	block no.)	
FIELD GROUP SUB GR.						
1308 0905						
9 ABSTRACT (Continue on reverse if necessary	ary and identify block i	number)				
This document is to be used by the Common Data Model Administrator (CDMA) to determine the impact a software change might have upon other software modules within the CDM subsystem. The CDM Impact Analysis Utility is used to identify and report which software modules and external schemas are affected by a change to the CDM.						
BLOCK 11:						
INTEGRATED INFORMATION SUPPORT SYSTEM Vol V - Common Data Model Subsystem						
Part 42 - CDM Impact Analysis Build Instructions User's Manual						
20. DISTRIBUTION/AVAILABILITY OF ABSTRA	21. ABSTRACT SECURITY CLASSIFICATION					
JINCLASSIFIED/UNLIMITED x SAME AS RPT	Unclassified					
22a. NAME OF RESPONSIBLE INDIVIDUAL	2b. TELEPHONE NO. 22c. OFFICE SYMBOL (Include Area Code)					
David L. Judson	(include Area (513) 255-7371	Code)	WRDC	MTI		

EDITION OF 1 JAN 73 IS OBSOLETE

DD FORM 1473, 83 APR

Unclassified

FOREWORD

This technical report covers work performed under Air Force Contract F33600-87-C-0464, DAPro Project. This contract is sponsored by the Manufacturing Technology Directorate, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio. It was administered under the technical direction of Mr. Bruce A. Rasmussen, Branch Chief, Integration Technology Division, Manufacturing Technology Directorate, through Mr. David L. Judson, Project Manager. The Prime Contractor was Integration Technology Services, Software Programs Division, of the Control Data Corporation, Dayton, Ohio, under the direction of Mr. W. A. Osborne. The DAPro Project Manager for Control Data Corporation was Mr. Jimmy P. Maxwell.

The DAPro project was created to continue the development, test, and demonstration of the Integrated Information Support System (IISS). The IISS technology work comprises enhancements to IISS software and the establishment and operation of IISS test bed hardware and communications for developers and users.

The following list names the Control Data Corporation subcontractors and their contributing activities:

SUBCONTRACTOR

ROLE

Control Data Corporation

Responsible for the overall Common Data Model design development and implementation, IISS integration and test, and technology transfer of IISS.

D. Appleton Company

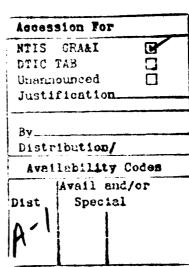
Responsible for providing software information services for the Common Data Model and IDEF1X integration methodology.

ONTEK

Responsible for defining and testing a representative integrated system base in Artificial Intelligence techniques to establish fitness for use.

Simpact Corporation

Responsible for Communication development.



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Structural Dynamics Research Corporation Responsible for User Interfaces, Virtual Terminal Interface, and Network Transaction Manager design, development, implementation, and support.

Arizona State University

Responsible for test bed operations and support.

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INTRODUCTION

The construction of the CDM Impact Tool requires precompiling of 38 routines for the purpose of discovering the impacts, storing them in the CDM and reporting them on a screen or a printer device. These routines have been grouped into a single logical unit of work. These modules are listed in a test file. After precompilation, the following steps must be executed in order to construct the CDM Impact executable:

- o Generate the CDM Impact Request Processor Main Program
- o Compile and insert into the object library (GENOLB) the generated CDM Impact Request Processor Main Program
- o Create the CDM Impact executable

Section 2 lists the prerequisites of the Impact Environment. Section 3 of this document lists the group to be precompiled. Section 4 contains the step by step instructions of building CDM Impact.

PREREQUISITES

The Prerequisites to creating the IMPACT ANALYSIS environment are:

- 1. Existence of an object library IMPAOLB in the directory cdmdir:[tools.Impa] for the Impact software.
- 2. Existence of an object library GENOLB in the directory cdmdir:[tools.Impa] for the generated code.
- 3. Existence of a a FORMS directory; this is the directory pointed to by the logical IISSULIB.
- 4. All the software must be compiled and placed in IMPAOLB according to normal Integration and Testing procedures.
- 5. The NDDL and NDML executables must be available.

DEFINE THE IMPACT PRECOMPILE GROUP

This section contains the list of routines to be precompiled as a single logical unit of work. They are contained in the files Impact.tst and Impact2.tst.

Application Name - Impact.tst/IMPACT2.tst

ALGX

ALLDTS

ALLTAGS

AUCX

CATMEM

CIINIT

DBAREA

DBMSDB

DOMAUC

DOMS

ECAUC

ECX

FNDHSDB

GETILUW

GETTAG

HOSTDB

ICHKUN

IGTPKC

IMPACTX

INSAPP

INSCOM

INSOBJ ISELHP

IVERARA

IVERATT

IVERAUC

IVERDB

IVERDBM

IVERDFD

IVERDI

IVERDOM

IVEROT

IVERENT

IVERHST

IVERKC

IVERLUW IVEROAC

IVERPSB

IVERRC

IVERRCC

IVERRST

IVERRT

IVERSMD

IVERVEW

KCX

LUWAPP

MODUX

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PSBDB RC TRACEX TRAUC TRDB TRDF TRDI TRRC TRRT TRSET TRUV

PROCEDURES TO BUILD THE CDM IMPACT EXECUTABLE

The following steps must be executed to construct the CDM Impact executable:

 Create the Oracle Impact tables in the CDM. Proceed as follows:

\$ UFI CDM/CDM

UFI>START ORAIMP.DAT

UFI>EXIT

2. Using NDDL, run the Impact meta data into the CDM. Proceed as follows:

\$ NDDL NDDLIMP.DAT

Examine NDDLIMP.OUT to assure that all NDDL commands completed successfully.

Precompile and compile the NDML-embedded source code.
 Proceed as follows:

\$@BLDIMP

PRECOMPILE AND COMPILE A GROUP OF PRC'S

NAME OF THE APPLICATION>: IMPACT

File: ALGX File: AUCX

File: TRUV

NDML PRECOMPILE SUCCESSFULLY COMPLETED BEGIN COMPILING GENERATED CODE RESULTS OF COMPILE CAN BE FOUND ON IMPACT.MSG

- 4. Repeat step 3 with IMPACT2 as the name of the application.
- 5. Execute the procedure file LNKIMP.COM to generate the RP-MAIN, compile the RP-MAIN, and place in GENOLB, generate the opt files and link the application.
 - \$ @LNKIMP

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5. Run the flan exectuable using the file CDMIMP.FDL. Enter [\$FLAN CDMIMP.FDL]

The form definition files will be:

CDMIMP.FD IMPACT1.FD IMPACT2.FD TRACE1.FD TRACE2.FD

6. Define the CDM Impact Function using the user interface utility SYSGEN. The name of the function is CDMIMPACT. The application is GRCDMIMPZZ, and the username, password and role is CDM.

The following pages contain listings for:

BLDIMP.COM LNKIMP.COM

```
S!
      BLDNDDL.COM
$!
      RECEIVE A TEST FILE OF PRC'S AND PRECOMPILE AND COMPILE THEM
$WS:= WRITE SYS$OUTPUT
$DEFINE IISSGLIB "CDMDIR: [TOOLS.IMPACT]GENOLB.OLB"
$WS "PRECOMPILE AND COMPILE A GROUP OF PRC'S"
$! read an input file containing names of modules to be precompiled
$INQUIRE AP " NAME OF THE APPLICATION>"
$ CREATE 'AP'.DAT
$ OPEN/WRITE
               NDMLIN
                       'AP'.IN
$ OPEN/READ NDDLIN CDMDIR: [TOOLS.IMPACT] 'AP'.TST
$NEXT:
$ READ/END OF FILE=INDONE NDDLIN FILE
$ WS "FILE: 'File'"
 APPEND 'FILE'.PRC 'AP'.DAT
 GOTO NEXT
 INDONE:
 WRITE NDMLIN "CDMIMP VAX"," ", AP, ".DAT ", AP, ".ERR ", "CDM/CDM", " FD=N"
 CLOSE NDMLIN
 CLOSE NDDLIN
$!
$!
    INPUTS TO PRECOMPILER ARE NOW SET UP
$!
    GO AHEAD AND RUN IT:
$!
  ASSIGN/USER_MODE SYS$COMMAND SYS$INPUT
         'AP' IN NDML
 ASSIGN
 ASSIGN 'AP'.OUT SYS$OUTPUT
 RUN CMDIR: [RUNAREA] NDML. EXE
S!
$ ALLDONE:
$ DEASSIGN SYS$OUTPUT
$!
$!
    check the .out file for errors in precompiling
$!
SOPEN/READ EFLE 'AP'.OUT
$ZR:="0"
  NERRLOOP:
    READ/END OF FILE=COMPERR EFLE EREC
      LENG = 'F$LENGTH(EREC)'
$
      UN = 'F$LOCATE("UNSUCC", EREC)'
              .EQS. 'LENG' THEN GOTO NERRLOOP
$
      IF 'UN'
      UN1 = 'UN' - 13
      UN2 = 'F$EXTRACT(UN1,1,EREC)'
      IF UN2 . EQS. ZR THEN GOTO NDMLGOOD
SWS "THE PRECOMPILE OF ''AP' HAS ''UN2'
                                          UNSUCCESSFUL ROUTINES"
$WS "CHECK THE ''AP'.ERR FILE FOR ERRORS"
$GOTO EXIT
SCOMPERR:
$WS "PRECOMPILE FAILED"
$GOTO EXIT
$!
$!
    the precompile was successful, compile the code
$!
  NDMLGOOD:
```

```
$WS "
$WS "NDML PRECOMPILE SUCCESSFULLY COMPLETED"
$WS "BEGIN COMPILING GENERATED CODE"
  NDMLGDRD:
$ READ/END OF FILE = COMPERR EFLE EREC
  LENG = \overline{F}$\overline{\text{ENGTH}}(\text{EREC})'
  UN = 'F$LOCATE("COMPILE ALL CODE", EREC)'
 IF 'UN' . EQS. 'LENG' THEN GOTO NDMLGDRD
$!
$ASSIGN 'AP'.MSG SYS$OUTPUT
$UN1 = 'UN' - 34
$NNAM:='F$EXTRACT(UN1,30,EREC)'
$CLOSE EFLE
$ @'NNAM'
$DEASSIGN SYS$OUTPUT
$WS "RESULTS OF COMPILE CAN BE FOUND ON ''AP'.MSG"
$EXIT:
$DEFINE IISSGLIB "CDMDIR:[TEST]GENOLB.OLB"
```

```
LNKIMP.COM
          THIS USES ORACLE VERSION 5.1
    CLONED WITH CHANGES 1/20/88 - Richard Stewart
    ADD ADDING TO NTM TABLES...NEED TO REMOVE FOR STANDALONE VERSION
$!
$DEFINE/NOLOG TOOLOLB
                        CDMDIR: [TOOLS.IMPA] IMPAOLB
$DEFINE/NOLOG IISSGLIB "CDMDIR: [TOOLS.IMPA]GENOLB.OLB"
$if pl .eqs. "N" then goto linkimp
$WS="WRITE SYS$OUTPUT"
  LINK:
$DEASSIGN SYS$OUTPUT
$WS " "
$WS "Beginning Generation of Rp-Main"
SLUW="CDMIMP"
$CDM="CDM/CDM"
$! generate the rp-main
$! NOTE: this is done automatically if you link
    set up .dat file to send to genrpd
$OPEN/WRITE GENRPD.DAT GENRPD.DAT
$WRITE GENRPD.DAT LUW, " ", CDM
$CLOSE GENRPD.DAT
 OPEN/WRITE FDLIN FIX.FDL
 WRITE FDLIN "IDENT
                       ""23-FEB-1988 09:49:43 VAX-11 FDL Editor"""
 WRITE FDLIN "
 WRITE FDLIN "SYSTEM"
 WRITE FDLIN "
                                                VAX/VMS"
                       SOURCE
 WRITE FDLIN "
 WRITE FDLIN "FILE"
 WRITE FDLIN "
                                                3 "
                       ALLOCATION
 WRITE FDLIN "
                       BEST TRY CONTIGUOUS
                                                yes"
 WRITE FDLIN "
                       EXTENSION
                                                39"
 WRITE FDLIN "
                       ORGANIZATION
                                                sequential"
                   **
 WRITE FDLIN "
 WRITE FDLIN "RECORD"
 WRITE FDLIN "
                                                yes"
                       BLOCK SPAN
 WRITE FDLIN "
                       CARRIAGE CONTROL
                                                carriage_return"
 WRITE FDLIN "
                                                fixed"
                       FORMAT
 WRITE FDLIN "
                                                80"
                       SIZE
 CLOSE FDLIN
 CONVERT/PAD=%040/FDL=FIX GENRPD.DAT GENRPD.DAT
$! now run genrpd
$ASSIGN/USER MODE SYS$COMMAND SYS$INPUT
$ASSIGN 'LUW'.RPD SYS$OUTPUT
$RUNGENRPD
$DEASSIGN SYS$OUTPUT
$ DELETE GENRPD.DAT;*, FIX.FDL;*
    now get the needed information to compile the rp-main(s)
$1
$ASSIGN 'LUW'.RDCOMP SYS$OUTPUT
```

```
$GENRPDFLAG = 0
$OPEN/READ EFLE 'LUW'.RPD
   RDLOOP:
$READ/END OF FILE=ENDMAIN EFLE EREC
   LENG = 'F$LENGTH(EREC)'
   DBMS = 'F$LOCATE("FOR DBMS", EREC)'
UN = 'F$LOCATE("STORED ON", EREC)'
        = 'F$LOCATE("MODULE", EREC)'
        = 'F$LOCATE("DATA BASE", EREC)'
   DB
        = 'F$LOCATE("REMOTE/", EREC)'
= 'F$LOCATE("RUN AT", EREC)'
             .NES. 'LENG' THEN GOTO SAVMODNM
 IF 'MN'
             .NES. 'LENG' THEN GOTO SAVDBN
 IF 'DB'
             .NES. 'LENG' THEN GOTO RMLC
     'RM'
             .NES. 'LENG' THEN GOTO SAVEHST
 IF 'HST'
             .NES. 'LENG' THEN GOTO SAVEDBMS
 IF 'DBMS'
             .EQS. 'LENG' THEN GOTO RDLOOP
 IF 'UN'
SGENRPDFLAG = 1
$UN1 = 'UN' + 16
$UNEND = 'F$LOCATE(".", EREC) - UN1
$PL := 'F$EXTRACT(UN1, UNEND, EREC)'
$IF DBMSNM .EQS. "ORACLE" THEN GOTO MAINPCC
SWS "A NEW DBMS TYPE MUST BE ADDED TO THE MAIN COMPILE PART OF THIS PROCE
$GOTO EXIT
$!
    get the rp-main mod name
$!
   SAVMODNM:
        = 'MN' + 7
SMN1
$RPMN1 := 'F$EXTRACT(MN1, 10, EREC)'
        = 'F$LENGTH(RPMN1)'
$MN2
         = 'F$LOCATE("ZZZ",
                              RPMN1)
$IF 'MN2' .EQS. 'LENG'
$IF 'MN2' .NES. 'LENG'
                           THEN MODLOC = 0
                           THEN MODLOC =
       := 'F$EXTRACT(MODLOC, 5, RPMN1)
SRPMN
$GOTO RDLOOP
$!
    get the remote/local status
$!
   RMLC:
RM1 = RM' + 13
$RMSW := 'F$EXTRACT(RM1, 1, EREC)'
$GOTO RDLOOP
$!
$!
    get the database name
S!
   SAVDBN:
SDB1 = 'DB' + 10
$DBN := 'F$EXTRACT(DB1, 30, EREC)'
$GOTO RDLOOP
S!
    get the host name
   SAVEHST:
$HST1 = 'HST' + 7
$HSTNM := 'F$EXTRACT(HST1, 3, EREC)'
$GOTO RDLOOP
S!
```

\$!

get the dbms name

```
SAVEDBMS:
DBMS1 = DBMS' + 9
$DBMSNM := 'F$EXTRACT(DBMS1, 30, EREC)
$GOTO RDLOOP
   oracle precompile the rp-main (if needed)
S!
  MAINPCC:
$PCC INAME='PL'.TMP LNAME='PL'.ERR USERID='CDM' -
ONAME='PL'.COB INCLUDE=SYS$ORACLE: HOST=COB74 MAXLITERAL=160 REBIND=YES
SON ERROR THEN WS "ORACLE ERROR IN RP-MAIN ''PL'.TMP"
SON ERROR THEN GOTO EXIT
$COBOL/ANSI_FORMAT/CHECK=ALL/COPY LIST/CROSS REFERENCE/OBJECT='PL'.OBJ -
  /FIPS=74/NOLIST/CHECK=ALL/STANDARD=(SYNTAX)/DEBUG=ALL 'PL'.COB
SON ERROR THEN WS "COBOL ERROR IN RP-MAIN ''PL'.TMP"
$ON ERROR THEN GOTO EXIT
$LIB/REPLACE IISSGLIB 'PL'.OBJ
$!DELETE 'PL'.OBJ;*
SDELETE 'PL'.COB;*
$DELETE 'PL'.ERR;*
S!
   Compile the rpmain.c
$vcc/debug/NOLIST/show=(include)/standard=portable -
      /noopt/OBJECT=CDMDIR:[TOOLS.IMPA]RPMAIN.OBJ/DEFINE=VAX RPMAIN.C
$DELETE RPMAIN.C;*
SGOTO RDLOOP
$!
$!
    done generating rp-main
$!
  ENDMAIN:
$CLOSE EFLE
$DEASSIGN SYS$OUTPUT
$IF GENRPDFLAG .EQ. O THEN GOTO MAINERR
$WS " "
SWS
     "GENERATION OF REQUEST PROCESSOR MAIN COMPLETE"
$GOTO STARTLINK
$!
$!
    there was an error in generating the rp-main
$!
  MAINERR:
$WS "THE GENRPD HAD ERRORS. EXAMINE ''LUW'.RPD"
$GOTO EXIT
$STARTLINK:
$WRITE SYS$OUTPUT " - LINKING CDMIMP.EXE "
$ ASSIGN CDMIMP.LINK SYS$OUTPUT
S!
$! inquire p5 "ENTER TWO LETTER NTM DIRECTORY PREFIX "
$! inquire p6 "ENTER NTM CLUSTER FOR THIS RP (T1V OR UIV) "
P5 = "GR"
$P6 = "UIV"
$P1 = "CDMIMP"
$!
$!
   NTMTAB.COM
$!
```

```
15-APR-87
      M. DENMAN
$!
    UPDATE NTM TABLES APITBL.DAT, APTTBL.DAT, ACTTBL.DAT
Š!
$!
$ FLAG=0
$ P7=P5+P1
 OPEN/READ APITBL.DAT CMDIR: [RUNAREA]APITBL.DAT
$ RD1:
 READ/END OF FILE=CHK APITBL.DAT ENTRY
 RPND=F$EXTRACT(0,8,ENTRY)
 IF RPND .NES. P7 THEN GOTO RD1
$ FLAG=1
 CHK:
 CLOSE APITBL.DAT
 IF FLAG .NES. O THEN GOTO NOUPD
 GOTO UPD
 NOUPD:
 WRITE SYS$OUTPUT "
 WRITE SYSSOUTPUT "RP MAIN ", P1," ALREADY IN NTM TABLES"
 WRITE SYS$OUTPUT "
 GOTO LINKIMP
$ UPD:
$ RPAPI=P7+"ZZ"+P6+"1"
 RPAPT=P1+"ZZ9999010120001130N0"
 OPEN/APPEND APITBL.DAT CMDIR: [RUNAREA] APITBL.DAT
$ OPEN/APPEND APTTBL.DAT CMDIR:[RUNAREA]APTTBL.DAT
$ WRITE APITBL.DAT RPAPI
$ WRITE APTTBL.DAT RPAPT
$ CLOSE APITBL.DAT
$ CLOSE APTTBL.DAT
$ WRITE SYS$OUTPUT "
$ WRITE SYSSOUTPUT "THREE NTM TABLES UPDATED WITH RP ",P1
 WRITE SYS$OUTPUT "
$!
$!DEFINE CDMROLB "CDMDIR:[CDMR]CDMROLB"
$LINKIMP:
$@SYS$ORACLE:LFOR CMDIR:[RUNAREA]CDMIMPZZ -
CDMDIR: [TOOLS.IMPA] CDMIMP.OBJ, -
CDMDIR: [SHARE] SHAROLB/INC=(NDDLYTB), -
CDMDIR: [TOOLS.IMPA] RPMAIN.OBJ, -
CDMDIR: [COM]CDMI/OPTIONS, -
SYS$ORACLE:SQLLIB/LIB,
CDMDIR: [COM]CDMUI.OPT/OPT,-
CDMDIR: [SHARE] SHAROLB/LIB,
CDMDIR: [COM] CDMNTM. OPT/OPTIONS SM
$DEASSIGN SYS$OUTPUT
$WRITE SYS$OUTPUT "LINKING COMPLETED"
SEXIT:
$DEFINE/NOLOG IISSGLIB "CDMDIR: [TEST]GENOLB.OLB"
$DEASSIGN TOOLOLB
$!
```